



remote control, auto recloser



Trip fault identification



Stable performance, reliable and safe



Over voltage, open circuit, overload protection

Application scenarios

Electricity Protection, Sustainable Electricity



Electrified railway station as power supply, transportation power distribution system, highway electromechanical system



Industrial and mining oil, street lighting system



EV Charging station, water pump moving ring, building power supply

Technical parameter

TYPE	MT84SR-1P	MT84SR-2P	MT84SR-3P	MT84SR-4P
Electrical Characteristics				
Standard				EN 50557
Power Distribution System				TT - TN - S
Rated Voltage(Ue)	(V)			230 AC (1)
Min Rated Voltage(Min Ue)	(V)			85% Ue
Max Rated Voltage(Max Ue)	(V)			110% Ue
Rated Insulation Voltage(Ui)	(V)			500
Dielectric Strength	(V)			2500 AC for 1 minute
Rated Withstand Voltage(Uimp)	(kV)			4
Over-voltage Category				III
Rated Frequency	(Hz)			50
Leakage making and breaking capacity (IΔm)	(A)			IΔm of the relevant circuit breaker
Rated condition residual short-circuit current (IΔc)	(A)			IΔc of the relevant circuit breaker
poles	1	2	3	4
MCB Type				1P - 2P - 3P - 4P
RCBO Type				2P - 4P
Rated current (In)	(A)			25 - 40 - 63
Rated residual operating current (IΔn)	(mA)			30 - 100 - 300 - 500
Rated non-operating resistance between electrical components and earth (R ₀)	(Ω)			8 (30mA) - 2.5 (100/300/500mA)
Rated working resistance between live parts and earth (R ₀)	(kΩ)			16 (30mA) - 5 (100/300/500mA)
Power loss	(W)			Power loss of the Related circuit breaker
Static Power	(VA)	1	1	1
Power of auto reclosing	(VA)	20	20	20
Mechanical Characteristics				
The Width of DIN Module		1,5	1,5	1,5
Reclosing Time Interval	(s)		5 - 20 - 60	
Max Operation Frequency	(oper./h)			30
Maximum mechanical durability (total number of operations)				10000
Max. Auto Reclose Cycle				3
Counter reset time number Continuous recloser operation	(s)			60
Terminal Part of Breaker	(mm ²)		Soft Cable: ≤ 1x35 - ≤ 2x16 - ≤ 1x16+2x10	
Rated tightening torque of circuit breaker	(Nm)		3 (IDP) - 2 (IDP NA)	
Installation location				any
Protection Grade of Circuit Breaker				IP20 (I) - IP40 (I)
Environment Characteristics				
Pollution Grade			2	
Work Temperature	(°C)	-25 +60	-25 +60	-25 +60
Storage Temperature	(°C)			-40 +70
Relative Humidity				55°C - RH 95%
Input				
operating mode		Open/Close COM as circuit breaker opening and closing input (passive opening and closing input)		
Signal description			passive control input, up to 2000m	
Auxiliary Contact Characteristics				
Auxiliary			yes	
Contact Type			Electronic Relay	
Rated Voltage	(V)		250V/AC/30VDC	
Rated Current	(A)		5A 250VAC/30VDC	
Frequency	(Hz)		50	
use category			AC12	
Operation Mode		NO NO COM As circuit breaker status output (OF/SD)		
Cable Connection	(mm ²)		≤ 2,5	
Rated Tightening Torque	(Nm)		0,4	
Operating mode				
Working mode selection			MODE selection button	
Working mode 1		Red light: automatic reclosing, self-resetting overvoltage and undervoltage		
Working mode 2		Green light: self-reset overvoltage and undervoltage		
Working mode 3		red light & green light alternately: manual mode		
Communication parameters				
Baudrate			Default as 9600, Configurable	
Check Digit			No Check digit	
Data Digit			8	
Stop Digit			1	
Device Address			Factory Default Address 1	
Self-resetting overvoltage and undervoltage protection				
Overvoltage action value	(V)	≥275V - 5s	≥300V - 1,5s	
Overvoltage recovery value	(V)		255V	
Undervoltage action value	(V)		≤160V - 3s	
Undervoltage recovery value	(V)		195V	
Auto Reclose Function				
Auto Reclose When Electric Fault Trip		•	•	•
Earth Fault Test				
Earthleakage Test		•	•	•
Reclose Stops when Fault		•	•	•
Signal of Redosing		•	•	•
Fault Signal Indicator		•	•	•
Function of Auto / Manual		•	•	•
Auxiliary Contact for Remote Operation		•	•	•
Internal Electrical Protection		PTC	PTC	PTC

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iARD Intelligent recloser

MT84SR

Power on with intelligence, safer and more efficient.



Intelligent Recloser Device MT84SR

iARD_MT84SR Remote control and intelligent recloser device can achieve the following functions

- After the circuit breaker has tripped, realize its automatic reclosing
- Auto reclosing program is fixed, 5S - 20S - 60S
- Remote closing/opening circuit breaker, the circuit breaker can be equipped with residual current action protection accessories or other electrical accessories
- Using iARD_MT84SR, automatic control in unattended or remote locations can be realized
- Local control of circuit breaker with handle
- With self-reset over-voltage protection function
- Safe operation on site with padlock attachment

Voltage indicator

- green light is on: normal voltage
- red light is on: Overvoltage
- Orange light is on: undervoltage



Current fault indicator

- Green light: current failure
- White light: no current fault

Working mode switch

- Mode 1: automatic reclosing, self-resetting overvoltage and undervoltage protection
- Mode 2: Self-reset overvoltage and undervoltage protection
- Mode 3: Manual opening and closing control

Intelligent reclosing device

MT84SR is an intelligent reclosing device, with overvoltage and undervoltage protection, automatic reclosing, dry contact/RS485 control, trip fault identification, matching Higer MBN/MCN/MDN series products, the width is 27mm.

iARD Intelligent reclosing device ensures sustainable power supply

I/O control

When the MT84SR is in Auto mode, connect the device to the power supply, and use the i/o interface to remotely control the device to control the opening and closing of the device.

RS485_Modbus control

MT84SR is in Auto mode, connect the device to the power supply, can use RS485 for remote control, control the opening and closing of the device, and can also perform operations such as status reading and address reading through Modbus protocol.



More flexible adaptation

Compatible with circuit breakers 1P, 2P, 3P, 4P

automatic reclosing

After the circuit breaker trips, its automatic reclosing is realized.



Self-resetting overvoltage and undervoltage

Overvoltage trip, undervoltage trip, voltage recovery automatic reclosing

Overvoltage trip

Overvoltage recovery 253v

$\geq 270V$

O/V

Undervoltage trip

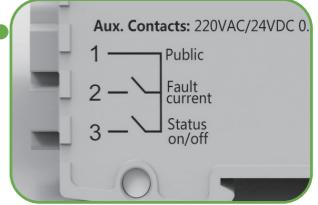
Undervoltage recovery 195v

$\leq 165V$

U/V

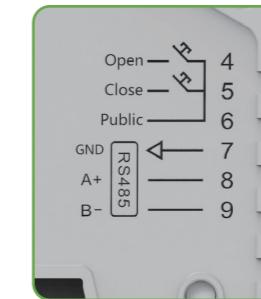
Terminal picture

Port	Explanation
Public	Public port
Fault current	Current fault
Status on/off	Switch status



MT84SR

- When 2, 3 and 1 are disconnected, the device works normally;
- When the current fails, terminals 1 and 2 will be connected and output;
- When the device is closed, terminals 1 and 3 are connected to the output;



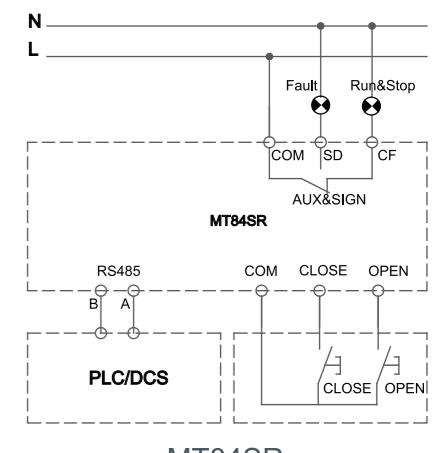
Port	Explanation
Open	Active opening input
Close	Active closing input
Public	Public port
GND	Grounding
RS485_A+	Modbus protocol
RS485_B-	Modbus protocol

MT84SR

- Terminals 4, 5 and 6 are remote input ports;
- Terminals 7, 8 and 9 are RS485 control ports.

Wiring diagram

Port	Explanation
L	Live wire
N	Neutral line
CLOSE	Active closing input
OPEN	Active opening input
com	Active common terminal
RS485_A	Modbus protocol
RS485_B	Modbus protocol
CF	Current fault
SD	Opening and closing state feedback



Dimensions

